

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1-6 (Cancelled)

7. **(Currently Amended)** In a system for programming a respirator for ventilating a patient, the system including a programmable controller responsive to selected ventilation parameters for controlling the respirator to ventilate the patient and for storing a plurality of ventilation parameters, a display for displaying a plurality of **implemented** ventilation parameters currently used by the controller to control the respirator and a plurality of proposed **but not implemented** ventilation parameters, and **an** input **system** **[[means]]** cooperating with the controller and the display for selecting one of the proposed **but not implemented** ventilation parameters from the plurality of proposed **but not implemented** ventilation parameters, the improvement comprising:

said display including a graphical representation of the effect of the proposed **but not implemented** ventilation parameters on **[[the]] a** breath cycle **having a duration;**

wherein said graphical representation includes a time scale associated with the breath cycle, an inspiration bar having a length corresponding to a proposed inspiration time, an expiration bar having a length corresponding to a proposed expiration time, a first numerical indicator indicating the proposed inspiration time, a second numerical indicator indicating the proposed inspiration time, and a third numerical indicator indicating the duration of the complete breath cycle, wherein at least the first and second numerical indicators are separate from the time scale.

8. **(Currently Amended)** The system of Claim 7, wherein said display includes a graphical representation of the **implemented** ventilation parameters currently used.

9. (Currently Amended) The system of Claim 7, wherein said display includes a graphical representation of the proposed **but not implemented** ventilation parameters of a breath cycle.

10. (Currently Amended) The system of Claim 7, wherein **[[the graphical representation of the effect of the proposed ventilation parameters on the breath cycle comprises a time scale, an inspiration bar and an expiration bar, and]]** the lengths of the inspiration bar and the expiration bar are a function of the ventilator **parameters** **[[settings]]** used by the controller to control the ventilator.

11. (Currently Amended) The system of Claim 7, wherein:
the input **system** **[[means includes means]]** **includes one or more input devices** for assigning values to the selected proposed **but not implemented** ventilation parameters**[[,]]; and**

[[the graphical representation of the effect of the proposed ventilation parameters on the breath cycle comprises a time scale, an inspiration bar and an expiration bar, and]] the lengths of the inspiration bar and the expiration bar are a function of the assigned values of the proposed **[[and]]** **but not implemented** **[[accepted]]** ventilator **parameters** **[[settings]]**.

12. (Currently Amended) The system of Claim 10, wherein the **scale of the** time scale is associated with the inspiration and expiration bar and is **automatically adjusted** **[[rescaled]]** to be compatible with the combination of the **inspiration and expiration** times **[[on the bar]]**.

13. (Currently Amended) The system of Claim 11, wherein the **scale of the** time scale associated with the inspiration and expiration bar is **automatically adjusted** **[[rescaled]]** to be compatible with the combinations of the **inspiration and expiration** times **[[on the bar]]**.

14. (New) A respirator system, comprising:
a programmable controller operable to control a respirator to ventilate a patient based at least on one or more implemented ventilation parameters;
a display operable to display a graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle having a duration, the graphical representation including a time scale associated with the breath cycle, an inspiration bar having a length corresponding to a proposed inspiration time, an expiration bar having a length corresponding to a proposed expiration time, a first numerical indicator indicating the proposed inspiration time, a second numerical indicator indicating the proposed inspiration time, and a third numerical indicator indicating the duration of the complete breath cycle, wherein at least the first and second numerical indicators are separate from the time scale;
and
an input system configured to cooperate with the controller and the display to allow a user to select one or more of the proposed but not implemented ventilation parameters.

15. (New) The system of Claim 14, wherein the display is further operable to display, simultaneous with the graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle, a graphical representation of one or more implemented ventilation parameters currently used by the controller.

16. (New) The system of Claim 14, wherein the display is further operable to display, simultaneous with the graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle, a graphical representation of one or more proposed but not implemented ventilation parameters.

17. (New) The system of Claim 14, wherein the input system is configured to allow a user to select values for one or more of the proposed but not implemented ventilation parameters.

18. (New) The system of Claim 17, wherein the lengths of the inspiration bar and the expiration bar are a function of values of the proposed inspiration and expiration times selected by the user via the input system.

19. (New) The system of Claim 17, wherein the scale of the time scale is automatically adjusted based on values for the inspiration and expiration times selected by the user via the input system.

20. (New) Computer instructions embodied in computer-readable media coupled to a processor and when executed by the processor, operable to:

control a respirator to ventilate a patient based at least on settings for one or more implemented ventilation parameters selected by a user;

display a graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle having a duration, the graphical representation including a time scale associated with the breath cycle, an inspiration bar having a length corresponding to a proposed inspiration time, an expiration bar having a length corresponding to a proposed expiration time, a first numerical indicator indicating the proposed inspiration time, a second numerical indicator indicating the proposed inspiration time, and a third numerical indicator indicating the duration of the complete breath cycle, wherein at least the first and second numerical indicators are separate from the time scale; and

provide an input interface allowing a user to select one or more of the proposed but not implemented ventilation parameters.

21. (New) The computer instructions of Claim 20, further operable to display, simultaneous with the graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle, a graphical representation of one or more implemented ventilation parameters currently used by the controller.

22. (New) The computer instructions of Claim 20, further operable to display, simultaneous with the graphical representation of the effect of one or more proposed but not implemented ventilation parameters on a breath cycle, a graphical representation of one or more proposed but not implemented ventilation parameters.

23. (New) The computer instructions of Claim 20, wherein the input interface allows a user to select values for one or more of the proposed but not implemented ventilation parameters.

24. (New) The computer instructions of Claim 23, wherein the lengths of the inspiration bar and the expiration bar are a function of values of the proposed inspiration and expiration times selected by the user via the input interface.

25. (New) The computer instructions of Claim 23, wherein the scale of the time scale is automatically adjusted based on values for the inspiration and expiration times selected by the user via the input interface.